## IN THE CLAIMS

1. (currently amended) A method of communicating in a hierarchical cellular system having an inter-layer handoff system, said method comprising the steps of:

determining a timer value which is a function of the duration that a wireless unit operates within a least a cell of a first layer, said timer value being determined by the inter-layer handoff system; and

using said timer value in determining whether said wireless unit is to be handed off to at least a cell of a second layer.

2. (original) The method of claim 1 wherein said step of determining comprises:
starting a timer as said wireless unit operates within a first cell of said first layer;

stopping said timer after a trigger is detected for handing off said wireless unit to a second cell of said first layer.

- 3. (original) The method of claim 1 wherein said step of determining comprises:

  determining an amount of time said wireless unit is within a first cell of said first layer before being handed off to a second cell of said first layer.
- 4. (original) The method of claim 3 wherein said step of determining further comprises: using said amount of time said wireless unit is within said first cell as said timer value.
- 5. (original) The method of claim 3 wherein said step of determining further comprises: determining said timer value as a function of said amount of time said wireless unit is within said first cell.
- 6. (original) The method of claim 5 wherein said step of determining further comprises:

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determining said timer value as a function of amounts of time said wireless unit is within cells of said first layer.

riginal) The method of claim 1 wherein said step of using comprises:
comparing said timer value to a first threshold; and
handing off said wireless unit to a second layer depending on said comparison.

8. (original) The method of claim 1 wherein said step of using further comprises: comparing said timer value to a first threshold; and handing off to a layer of smaller cells if said timer value is greater than said threshold.

9. (original) The method of claim 8 wherein said step of using further comprises: comparing said timer value to a second threshold; and handing off to a layer of larger cells if said timer value is less than said second threshold.

10. (original) The method of claim 9 wherein said step of using further comprises: remaining in a current layer if said timer value is less than said first threshold and greater than said second threshold.

11. (original) An inter-layer handoff system for communicating in a hierarchical cellular system, said system comprising:

processing circuitry configured to determine a timer value which is a function of the duration that a wireless unit operates within at least a cell of a first layer of said hierarchical cellular system and to use said timer value in determining whether said wireless unit is to be handed off to at least a cell of a second layer.

12. (original) The system of claim 11 wherein said processing circuitry is configured to start a timer as said wireless unit operates within a first cell of said first layer and to stop

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said timer after a trigger is detected for handing off said wireless unit to a second cell of said first layer.

13. (original) The system of claim 11 wherein said processing circuitry is configured to determine an amount of time said wireless unit is within a first cell of said first layer before being handed off to at least a second cell of said first layer.

- 14. (original) The system of claim 13 wherein said processing circuitry configured to use said amount of time said wireless unit is within said first cell as said timer value.
- 15. (original) The system of claim 13 wherein said processing circuitry is configured to determine said timer value as a function of said amount of time said wireless unit is within said first cell.
- 16. (original) The system of claim 15 wherein said processing circuitry is configured to determine said timer value as a function of amounts of time said wireless unit is within cells of said first layer.
- 17. (original) The system of claim 11 wherein said processing circuitry is configured to compare said timer value to a first threshold and to handoff said wireless unit to a second layer depending on said comparison.
- 18. (original) The system of claim 11 wherein said processing circuitry is configured to compare said timer value to a first threshold and handoff to a layer of smaller cells if said timer value is greater than said first threshold.
- 19. (original) The system of claim 18 wherein said processing circuitry further configured to compare said timer value to a second threshold and handoff to a layer of larger cells if said timer value is less than said second threshold.

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20. (currently amended) The system of claim 19 wherein said processing circuitry is further configured to remain in a current layer if said timer value is less than said first threshold and greater than said second threshold.

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